

SEQUENCE LISTING

<110> Carulli, John P.
Little, Randall D.
Recker, Robert R.
Johnson, Mark L.

<120> High bone mass gene of 11q13.3

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<140> US 09/544,398
<141> 2000-04-05

<150> US 09/229,319
<151> 1999-01-13

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Ala	Ala	Ser	Pro	Leu	Leu	Phe	Ala	Asn	Arg	Arg	Asp	Val	Arg	Leu		
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gtg	gac	gcc	ggc	gga	gtc	aag	ctg	gag	tcc	acc	atc	gtt	gtc	agc	ggc	253
Val	Asp	Ala	Gly	Gly	Val	Lys	Leu	Glu	Ser	Thr	Ile	Val	Val	Ser	Gly	
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Leu	Glu	Asp	Ala	Ala	Ala	Val	Asp	Phe	Gln	Phe	Ser	Lys	Gly	Ala	Val	
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cag acg ggg gcc gcc gtg cag aac gtg gtc atc tcc ggc ctg gtc tct	397
Gln Thr Gly Ala Ala Val Gln Asn Val Val Ile Ser Gly Leu Val Ser	
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Pro Asp Gly Leu Ala Cys Asp Trp Val Gly Lys Lys Leu Tyr Trp Thr	
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gac tca gag acc aac cgc atc gag gtg gcc aac ctc aat ggc aca tcc	493
Asp Ser Glu Thr Asn Arg Ile Glu Val Ala Asn Leu Asn Gly Thr Ser	
130 135 140	
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Arg Lys Val Leu Phe Trp Gln Asp Leu Asp Gln Pro Arg Ala Ile Ala	
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Leu Asp Pro Ala His Gly Tyr Met Tyr Trp Thr Asp Trp Gly Glu Thr	
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Pro Arg Ile Glu Arg Ala Gly Met Asp Gly Ser Thr Arg Lys Ile Ile	
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Val Asp Ser Asp Ile Tyr Trp Pro Asn Gly Leu Thr Ile Asp Leu Glu	
190 195 200 205	
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210 215 220	
gcc aac ctg gac ggc tcg ttc cgg cag aag gtg gtg gag ggc agc ctg	781
Ala Asn Leu Asp Gly Ser Phe Arg Gln Lys Val Val Glu Gly Ser Leu	
225 230 235	
acg cac ccc ttc gcc ctg acg ctc tcc ggg gac act ctg tac tgg aca	829
Thr His Pro Phe Ala Leu Thr Leu Ser Gly Asp Thr Leu Tyr Trp Thr	
240 245 250	
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Asp Trp Gln Thr Arg Ser Ile His Ala Cys Asn Lys Arg Thr Gly Gly	
255 260 265	
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Lys Arg Lys Glu Ile Leu Ser Ala Leu Tyr Ser Pro Met Asp Ile Gln	
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Val Leu Ser Gln Glu Arg Gln Pro Phe Phe His Thr Arg Cys Glu Glu	
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Phe Tyr Thr Cys Ala Cys Pro Thr Gly Val Gln Leu Gln Asp Asn Gly	
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Arg Thr Cys Lys Ala Gly Ala Glu Glu Val Leu Leu Ala Arg Arg	

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Val Leu Gln Val Asp Asp Ile Arg His Ala Ile Ala Ile Asp Tyr Asp			
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Pro Leu Glu Gly Tyr Val Tyr Trp Thr Asp Asp Glu Val Arg Ala Ile			
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cgc agg gc ^g tac ctg gac ggg tct ggg gc ^g cag acg ctg gtc aac acc			1309
Arg Arg Ala Tyr Leu Asp Gly Ser Gly Ala Gln Thr Leu Val Asn Thr			
400	405	410	
gag atc aac gac ccc gat ggc atc gc ^g gtc gac tgg gtg gcc cga aac			1357
Glu Ile Asn Asp Pro Asp Gly Ile Ala Val Asp Trp Val Ala Arg Asn			
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Leu Tyr Trp Thr Asp Thr Gly Thr Asp Arg Ile Glu Val Thr Arg Leu			
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Asn Gly Thr Ser Arg Lys Ile Leu Val Ser Glu Asp Leu Asp Glu Pro			
450	455	460	
cga gcc atc gca ctg cac ccc gtg atg ggc ctc atg tac tgg aca gac			1501
Arg Ala Ile Ala Leu His Pro Val Met Gly Leu Met Tyr Trp Thr Asp			
465	470	475	
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Trp Gly Glu Asn Pro Lys Ile Glu Cys Ala Asn Leu Asp Gly Gln Glu			
480	485	490	
cg ^g cgt gtg ctg gtc aat gcc tcc ctc ggg tgg ccc aac ggc ctg gcc			1597
Arg Arg Val Leu Val Asn Ala Ser Leu Gly Trp Pro Asn Gly Leu Ala			
495	500	505	
ctg gac ctg cag gag ggg aag ctc tac tgg gga gac gcc aag aca gac			1645
Leu Asp Leu Gln Glu Gly Lys Leu Tyr Trp Gly Asp Ala Lys Thr Asp			
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aag atc gag gtg atc aat gtt gat ggg acg aag agg cgg acc ctc ctg			1693
Lys Ile Glu Val Ile Asn Val Asp Gly Thr Lys Arg Arg Thr Leu Leu			
530	535	540	
gag gac aag ctc ccg cac att ttc ggg ttc acg ctg ctg ggg gac ttc			1741
Glu Asp Lys Leu Pro His Ile Phe Gly Phe Thr Leu Leu Gly Asp Phe			
545	550	555	
atc tac tgg act gac tgg cag cgc cgc agc atc gag cgg gtg cac aag			1789
Ile Tyr Trp Thr Asp Trp Gln Arg Arg Ser Ile Glu Arg Val His Lys			
560	565	570	
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Val Lys Ala Ser Arg Asp Val Ile Ile Asp Gln Leu Pro Asp Leu Met			
575	580	585	
ggg ctc aaa gct gtg aat gtg gcc aag gtc gtc gga acc aac ccg tgt			1885
Gly Leu Lys Ala Val Asn Val Ala Lys Val Val Gly Thr Asn Pro Cys			
590	595	600	605
gc ^g gac agg aac ggg ggg tgc agc cac ctg tgc ttc ttc aca ccc cac			1933

Ala Asp Arg Asn Gly Gly Cys Ser His Leu Cys Phe Phe Thr Pro His			
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gca acc cgg tgt ggc tgc ccc atc ggc ctg gag ctg ctg agt gac atg			1981
Ala Thr Arg Cys Cys Pro Ile Gly Leu Glu Leu Leu Ser Asp Met			
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aag acc tgc atc gtg cct gag gcc ttc ttg gtc ttc acc agc aga gcc			2029
Lys Thr Cys Ile Val Pro Glu Ala Phe Leu Val Phe Thr Ser Arg Ala			
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gcc atc cac agg atc tcc ctc gag acc aat aac aac gac gtg gcc atc			2077
Ala Ile His Arg Ile Ser Leu Glu Thr Asn Asn Asp Val Ala Ile			
655	660	665	
ccg ctc acg ggc gtc aag gag gcc tca gcc ctg gac ttt gat gtg tcc			2125
Pro Leu Thr Gly Val Lys Glu Ala Ser Ala Leu Asp Phe Asp Val Ser			
670	675	680	685
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Asn Asn His Ile Tyr Trp Thr Asp Val Ser Leu Lys Thr Ile Ser Arg			
690	695	700	
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Ala Phe Met Asn Gly Ser Ser Val Glu His Val Val Glu Phe Gly Leu			
705	710	715	
gac tac ccc gag ggc atg gcc gtt gac tgg atg ggc aag aac ctc tac			2269
Asp Tyr Pro Glu Gly Met Ala Val Asp Trp Met Gly Lys Asn Leu Tyr			
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Trp Ala Asp Thr Gly Thr Asn Arg Ile Glu Val Ala Arg Leu Asp Gly			
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Gln Phe Arg Gln Val Leu Val Trp Arg Asp Leu Asp Asn Pro Arg Ser			
750	755	760	765
ctg gcc ctg gat ccc acc aag ggc tac atc tac tgg acc gag tgg ggc			2413
Leu Ala Leu Asp Pro Thr Lys Gly Tyr Ile Tyr Trp Thr Glu Trp Gly			
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Gly Lys Pro Arg Ile Val Arg Ala Phe Met Asp Gly Thr Asn Cys Met			
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Thr Leu Val Asp Lys Val Gly Arg Ala Asn Asp Leu Thr Ile Asp Tyr			
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Ala Asp Gln Arg Leu Tyr Trp Thr Asp Leu Asp Thr Asn Met Ile Glu			
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Ser Ser Asn Met Leu Gly Gln Glu Arg Val Val Ile Ala Asp Asp Leu			
830	835	840	845
ccg cac ccg ttc ggt ctg acg cag tac agc gat tat atc tac tgg aca			2653
Pro His Pro Phe Gly Leu Thr Gln Tyr Ser Asp Tyr Ile Tyr Trp Thr			
850	855	860	
gac tgg aat ctg cac agc att gag cgg gcc gac aag act agc ggc cgg			2701
Asp Trp Asn Leu His Ser Ile Glu Arg Ala Asp Lys Thr Ser Gly Arg			
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880 885 890	
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895 900 905	
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990 995 1000 1005	
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1120 1125 1130	
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Glu Asp Ala Asn Ile Val Gln Pro Leu Gly Leu Thr Ile Leu Gly Lys			
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cat ctc tac tgg atc gac cgc cag cag cag atg atc gag cgt gtg gag			3613
His Leu Tyr Trp Ile Asp Arg Gln Gln Gln Met Ile Glu Arg Val Glu			
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Lys Thr Thr Gly Asp Lys Arg Thr Arg Ile Gln Gly Arg Val Ala His			
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ctc act ggc atc cat gca gtg gag gaa gtc agc ctg gag gag ttc tca			3709
Leu Thr Gly Ile His Ala Val Glu Glu Val Ser Leu Glu Glu Phe Ser			
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Ala His Pro Cys Ala Arg Asp Asn Gly Gly Cys Ser His Ile Cys Ile			
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Gly Cys Pro Val Cys Ser Ala Ala Gln Phe Pro Cys Ala Arg Gly Gln			
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Cys Val Asp Leu Arg Leu Arg Cys Asp Gly Glu Ala Asp Cys Gln Asp			
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Arg Ser Asp Glu Val Asp Cys Asp Ala Ile Cys Leu Pro Asn Gln Phe			
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Phe Pro Asp Cys Ile Asp Gly Ser Asp Glu Leu Met Cys Glu Ile Thr			
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Lys Pro Pro Ser Asp Asp Ser Pro Ala His Ser Ser Ala Ile Gly Pro			
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Val Ile Gly Ile Ile Leu Ser Leu Phe Val Met Gly Gly Val Tyr Phe			
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Phe Pro His Glu Tyr Val Ser Gly Thr Pro His Val Pro Leu Asn Phe			
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Ile Ala Pro Gly Gly Ser Gln His Gly Pro Phe Thr Gly Ile Ala Cys			
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Gly Lys Ser Met Met Ser Ser Val Leu Met Gly Gly Arg Gly Gly			
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Val Pro Leu Tyr Asp Arg Asn His Val Thr Gly Ala Ser Ser Ser			
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tcg tcc agc acg aag gcc acg ctg tac ccg ccg atc ctg aac ccg ccg			4573
Ser Ser Ser Thr Lys Ala Thr Leu Tyr Pro Pro Ile Leu Asn Pro Pro			
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Pro Ser Pro Ala Thr Asp Pro Ser Leu Tyr Asn Met Asp Met Phe Tyr			
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Ser Ser Asn Ile Pro Ala Thr Ala Arg Pro Tyr Arg Pro Tyr Ile Ile			
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Arg Gly Met Ala Pro Pro Thr Thr Pro Cys Ser Thr Asp Val Cys Asp			
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Ser Asp Tyr Ser Ala Ser Arg Trp Lys Ala Ser Lys Tyr Tyr Leu Asp			
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Leu Asn Ser Asp Ser Asp Pro Tyr Pro Pro Pro Thr Pro His Ser			
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Gln Tyr Leu Ser Ala Glu Asp Ser Cys Pro Pro Ser Pro Ala Thr Glu			
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Arg Ser Tyr Phe His Leu Phe Pro Pro Pro Ser Pro Cys Thr Asp			
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Ser Ser			
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Met Glu Ala Ala Pro Pro Gly Pro Pro Trp Pro Leu Leu	
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Leu Leu Leu Leu Leu Leu Ala Leu Cys Gly Cys Pro Ala Pro Ala	
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Ala Ala Ser Pro Leu Leu Phe Ala Asn Arg Arg Asp Val Arg Leu	
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Val Asp Ala Gly Gly Val Lys Leu Glu Ser Thr Ile Val Val Ser Gly	
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Leu Glu Asp Ala Ala Val Asp Phe Gln Phe Ser Lys Gly Ala Val	
65 70 75	
tac tgg aca gac gtg agc gag gag gcc atc aag cag acc tac ctg aac	349
Tyr Trp Thr Asp Val Ser Glu Glu Ala Ile Lys Gln Thr Tyr Leu Asn	
80 85 90	
cag acg ggg gcc gcc gtg cag aac gtg gtc atc tcc ggc ctg gtc tct	397
Gln Thr Gly Ala Ala Val Gln Asn Val Val Ile Ser Gly Leu Val Ser	
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ccc gac ggc ctc gcc tgc gac tgg gtg ggc aag aag ctg tac tgg acg	445
Pro Asp Gly Leu Ala Cys Asp Trp Val Gly Lys Leu Tyr Trp Thr	
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Asp Ser Glu Thr Asn Arg Ile Glu Val Ala Asn Leu Asn Gly Thr Ser	
130 135 140	
cgg aag gtg ctc ttc tgg cag gac ctt gac cag ccg agg gcc atc gcc	541
Arg Lys Val Leu Phe Trp Gln Asp Leu Asp Gln Pro Arg Ala Ile Ala	
145 150 155	
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Leu Asp Pro Ala His Gly Tyr Met Tyr Trp Thr Asp Trp Val Glu Thr	
160 165 170	
ccc cgg att gag cgg gca ggg atg gat ggc agc acc cgg aag atc att	637
Pro Arg Ile Glu Arg Ala Gly Met Asp Gly Ser Thr Arg Lys Ile Ile	
175 180 185	
gtg gac tcg gac att tac tgg ccc aat gga ctg acc atc gac ctg gag	685
Val Asp Ser Asp Ile Tyr Trp Pro Asn Gly Leu Thr Ile Asp Leu Glu	
190 195 200 205	
gag cag aag ctc tac tgg gct gac gcc aag ctc agc ttc atc cac cgt	733
Glu Gln Lys Leu Tyr Trp Ala Asp Ala Lys Leu Ser Phe Ile His Arg	
210 215 220	
gcc aac ctg gac ggc tcg ttc cgg cag aag gtg gtg gag ggc agc ctg	781
Ala Asn Leu Asp Gly Ser Phe Arg Gln Lys Val Val Glu Gly Ser Leu	
225 230 235	
acg cac ccc ttc gcc ctg acg ctc tcc ggg gac act ctg tac tgg aca	829
Thr His Pro Phe Ala Leu Thr Leu Ser Gly Asp Thr Leu Tyr Trp Thr	
240 245 250	

gac tgg cag acc cgc tcc atc cat gcc tgc aac aag cgc act ggg ggg		877
Asp Trp Gln Thr Arg Ser Ile His Ala Cys Asn Lys Arg Thr Gly Gly		
255 260 265		
aag agg aag gag atc ctg agt gcc ctc tac tca ccc atg gac atc cag		925
Lys Arg Lys Glu Ile Leu Ser Ala Leu Tyr Ser Pro Met Asp Ile Gln		
270 275 280 285		
gtg ctg agc cag gag cgg cag cct ttc ttc cac act cgc tgt gag gag		973
Val Leu Ser Gln Glu Arg Gln Pro Phe Phe His Thr Arg Cys Glu Glu		
290 295 300		
gac aat ggc ggc tgc tcc cac ctg tgc ctg tcc cca agc gag cct		1021
Asp Asn Gly Cys Ser His Leu Cys Leu Leu Ser Pro Ser Glu Pro		
305 310 315		
ttc tac aca tgc gcc tgc ccc acg ggt gtg cag ctg cag gac aac ggc		1069
Phe Tyr Thr Cys Ala Cys Pro Thr Gly Val Gln Leu Gln Asp Asn Gly		
320 325 330		
agg acg tgt aag gca gga gcc gag gag gtg ctg ctg gcc cgg cgg		1117
Arg Thr Cys Lys Ala Gly Ala Glu Glu Val Leu Leu Ala Arg Arg		
335 340 345		
acg gac cta cgg agg atc tcg ctg gac acg ccg gac ttc acc gac atc		1165
Thr Asp Leu Arg Arg Ile Ser Leu Asp Thr Pro Asp Phe Thr Asp Ile		
350 355 360 365		
gtg ctg cag gtg gac gac atc cgg cac gcc att gcc atc gac tac gac		1213
Val Leu Gln Val Asp Asp Ile Arg His Ala Ile Ala Ile Asp Tyr Asp		
370 375 380		
ccg cta gag ggc tat gtc tac tgg aca gat gac gag gtg cgg gcc atc		1261
Pro Leu Glu Gly Tyr Val Tyr Trp Thr Asp Asp Glu Val Arg Ala Ile		
385 390 395		
cgc agg gcg tac ctg gac ggg tct ggg gcg cag acg ctg gtc aac acc		1309
Arg Arg Ala Tyr Leu Asp Gly Ser Gly Ala Gln Thr Leu Val Asn Thr		
400 405 410		
gag atc aac gac ccc gat ggc atc gcg gtc gac tgg gtg gcc cga aac		1357
Glu Ile Asn Asp Pro Asp Gly Ile Ala Val Asp Trp Val Ala Arg Asn		
415 420 425		
ctc tac tgg acc gac acg ggc acg gac cgc atc gag gtg acg cgc ctc		1405
Leu Tyr Trp Thr Asp Thr Gly Thr Asp Arg Ile Glu Val Thr Arg Leu		
430 435 440 445		
aac ggc acc tcc cgc aag atc ctg gtg tcg gag gac ctg gac gag ccc		1453
Asn Gly Thr Ser Arg Lys Ile Leu Val Ser Glu Asp Leu Asp Glu Pro		
450 455 460		
cga gcc atc gca ctg cac ccc gtg atg ggc ctc atg tac tgg aca gac		1501
Arg Ala Ile Ala Leu His Pro Val Met Gly Leu Met Tyr Trp Thr Asp		
465 470 475		
tgg gga gag aac cct aaa atc gag tgt gcc aac ttg gat ggg cag gag		1549
Trp Gly Glu Asn Pro Lys Ile Glu Cys Ala Asn Leu Asp Gly Gln Glu		
480 485 490		
cgg cgt gtg ctg gtc aat gcc tcc ctc ggg tgg ccc aac ggc ctg gcc		1597
Arg Arg Val Leu Val Asn Ala Ser Leu Gly Trp Pro Asn Gly Leu Ala		
495 500 505		
ctg gac ctg cag gag ggg aag ctc tac tgg gga gac gcc aag aca gac		1645
Leu Asp Leu Gln Glu Gly Lys Leu Tyr Trp Gly Asp Ala Lys Thr Asp		

510	515	520	525	
aag atc gag gtg atc aat gtt gat ggg acg aag agg cgg acc ctc ctg				1693
Lys Ile Glu Val Ile Asn Val Asp Gly Thr Lys Arg Arg Thr Leu Leu				
530	535	540		
gag gac aag ctc ccg cac att ttc ggg ttc acg ctg ctg ggg gac ttc				1741
Glu Asp Lys Leu Pro His Ile Phe Gly Phe Thr Leu Leu Gly Asp Phe				
545	550	555		
atc tac tgg act gac tgg cag cgc agc atc gag cgg gtg cac aag				1789
Ile Tyr Trp Thr Asp Trp Gln Arg Arg Ser Ile Glu Arg Val His Lys				
560	565	570		
gtc aag gcc agc cggt gtc atc att gac cag ctg ccc gac ctg atg				1837
Val Lys Ala Ser Arg Asp Val Ile Ile Asp Gln Leu Pro Asp Leu Met				
575	580	585		
ggg ctc aaa gct gtg aat gtg gcc aag gtc gtc gga acc aac ccg tgt				1885
Gly Leu Lys Ala Val Asn Val Ala Lys Val Val Gly Thr Asn Pro Cys				
590	595	600	605	
gcg gac agg aac ggg ggg tgc agc cac ctg tgc ttc ttc aca ccc cac				1933
Ala Asp Arg Asn Gly Gly Cys Ser His Leu Cys Phe Phe Thr Pro His				
610	615	620		
gca acc cgg tgt ggc tgc ccc atc ggc ctg gag ctg ctg agt gac atg				1981
Ala Thr Arg Cys Gly Cys Pro Ile Gly Leu Glu Leu Leu Ser Asp Met				
625	630	635		
aag acc tgc atc gtg cct gag gcc ttc ttg gtc ttc acc agc aga gcc				2029
Lys Thr Cys Ile Val Pro Glu Ala Phe Leu Val Phe Thr Ser Arg Ala				
640	645	650		
gcc atc cac agg atc tcc ctc gag acc aat aac aac gac gtg gcc atc				2077
Ala Ile His Arg Ile Ser Leu Glu Thr Asn Asn Asn Asp Val Ala Ile				
655	660	665		
ccg ctc acg ggc gtc aag gag gcc tca gcc ctg gac ttt gat gtg tcc				2125
Pro Leu Thr Gly Val Lys Glu Ala Ser Ala Leu Asp Phe Asp Val Ser				
670	675	680	685	
aac aac cac atc tac tgg aca gac gtc agc ctg aag acc atc agc cgc				2173
Asn Asn His Ile Tyr Trp Thr Asp Val Ser Leu Lys Thr Ile Ser Arg				
690	695	700		
gcc ttc atg aac ggg agc tcg gtg gag cac gtg gtg gag ttt ggc ctt				2221
Ala Phe Met Asn Gly Ser Ser Val Glu His Val Val Glu Phe Gly Leu				
705	710	715		
gac tac ccc gag ggc atg gcc gtt gac tgg atg ggc aag aac ctc tac				2269
Asp Tyr Pro Glu Gly Met Ala Val Asp Trp Met Gly Lys Asn Leu Tyr				
720	725	730		
tgg gcc gac act ggg acc aac aga atc gaa gtg gcg cgg ctg gac ggg				2317
Trp Ala Asp Thr Gly Thr Asn Arg Ile Glu Val Ala Arg Leu Asp Gly				
735	740	745		
cag ttc cgg caa gtc ctc gtg tgg agg gac ttg gac aac ccg agg tcg				2365
Gln Phe Arg Gln Val Leu Val Trp Arg Asp Leu Asp Asn Pro Arg Ser				
750	755	760	765	
ctg gcc ctg gat ccc acc aag ggc tac atc tac tgg acc gag tgg ggc				2413
Leu Ala Leu Asp Pro Thr Lys Gly Tyr Ile Tyr Trp Thr Glu Trp Gly				
770	775	780		
ggc aag ccg agg atc gtg cgg gcc ttc atg gac ggg acc aac tgc atg				2461

Gly Lys Pro Arg Ile Val Arg Ala Phe Met Asp Gly Thr Asn Cys Met			
785	790	795	
acg ctg gtg gac aag gtg ggc cgg gcc aac gac ctc acc att gac tac			2509
Thr Leu Val Asp Lys Val Gly Arg Ala Asn Asp Leu Thr Ile Asp Tyr			
800	805	810	
gct gac cag cgc ctc tac tgg acc gac ctg gac acc aac atg atc gag			2557
Ala Asp Gln Arg Leu Tyr Trp Thr Asp Leu Asp Thr Asn Met Ile Glu			
815	820	825	
tcg tcc aac atg ctg ggt cag gag cgg gtc gtg att gcc gac gat ctc			2605
Ser Ser Asn Met Leu Gly Gln Glu Arg Val Val Ile Ala Asp Asp Leu			
830	835	840	845
ccg cac ccg ttc ggt ctg acg cag tac agc gat tat atc tac tgg aca			2653
Pro His Pro Phe Gly Leu Thr Gln Tyr Ser Asp Tyr Ile Tyr Trp Thr			
850	855	860	
gac tgg aat ctg cac agc att gag cgg gcc gac aag act agc ggc cgg			2701
Asp Trp Asn Leu His Ser Ile Glu Arg Ala Asp Lys Thr Ser Gly Arg			
865	870	875	
aac cgcc acc ctc atc cag ggc cac ctg gac ttc gtg atg gac atc ctg			2749
Asn Arg Thr Leu Ile Gln Gly His Leu Asp Phe Val Met Asp Ile Leu			
880	885	890	
gtg ttc cac tcc tcc cgc cag gat ggc ctc aat gac tgt atg cac aac			2797
Val Phe His Ser Ser Arg Gln Asp Gly Leu Asn Asp Cys Met His Asn			
895	900	905	
aac ggg cag tgt ggg cag ctg tgc ctt gcc atc ccc ggc ggc cac cgc			2845
Asn Gly Gln Cys Gly Gln Leu Cys Leu Ala Ile Pro Gly Gly His Arg			
910	915	920	925
tgc ggc tgc gcc tca cac tac acc ctg gac ccc agc agc cgc aac tgc			2893
Cys Gly Cys Ala Ser His Tyr Thr Leu Asp Pro Ser Ser Arg Asn Cys			
930	935	940	
agc ccg ccc acc acc ttc ttg ctg ttc agc cag aaa tct gcc atc agt			2941
Ser Pro Pro Thr Thr Phe Leu Leu Phe Ser Gln Lys Ser Ala Ile Ser			
945	950	955	
cgg atg atc ccg gac gac cag cac agc ccg gat ctc atc ctg ccc ctg			2989
Arg Met Ile Pro Asp Asp Gln His Ser Pro Asp Leu Ile Leu Pro Leu			
960	965	970	
cat gga ctg agg aac gtc aaa gcc atc gac tat gac cca ctg gac aag			3037
His Gly Leu Arg Asn Val Lys Ala Ile Asp Tyr Asp Pro Leu Asp Lys			
975	980	985	
ttc atc tac tgg gtg gat ggg cgc cag aac atc aag cga gcc aag gac			3085
Phe Ile Tyr Trp Val Asp Gly Arg Gln Asn Ile Lys Arg Ala Lys Asp			
990	995	1000	1005
gac ggg acc cag ccc ttt gtt ttg acc tct ctg agc caa ggc caa aac			3133
Asp Gly Thr Gln Pro Phe Val Leu Thr Ser Leu Ser Gln Gly Gln Asn			
1010	1015	1020	
cca gac agg cag ccc cac gac ctc agc atc gac atc tac agc cgg aca			3181
Pro Asp Arg Gln Pro His Asp Leu Ser Ile Asp Ile Tyr Ser Arg Thr			
1025	1030	1035	
ctg ttc tgg acg tgc gag gcc acc aat acc atc aac gtc cac agg ctg			3229
Leu Phe Trp Thr Cys Glu Ala Thr Asn Thr Ile Asn Val His Arg Leu			
1040	1045	1050	

agc ggg gaa gcc atg ggg gtg ctg cgt ggg gac cgc gac aag ccc Ser Gly Ala Met Gly Val Val Leu Arg Gly Asp Arg Asp Lys Pro	3277
1055 1060 1065	
agg gcc atc gtc gtc aac gcg gag cga ggg tac ctg tac ttc acc aac Arg Ala Ile Val Val Asn Ala Glu Arg Gly Tyr Leu Tyr Phe Thr Asn	3325
1070 1075 1080 1085	
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1090 1095 1100	
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1105 1110 1115	
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1120 1125 1130	
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1135 1140 1145	
gag gac gcc aac atc gtg cag cct ctg ggc ctg acc atc ctt ggc aag Glu Asp Ala Asn Ile Val Gln Pro Leu Gly Leu Thr Ile Leu Gly Lys	3565
1150 1155 1160 1165	
cat ctc tac tgg atc gac cgc cag cag cag atg atc gag cgt gtg gag His Leu Tyr Trp Ile Asp Arg Gln Gln Met Ile Glu Arg Val Glu	3613
1170 1175 1180	
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1185 1190 1195	
ctc act ggc atc cat gca gtg gag gaa gtc agc ctg gag gag ttc tca Leu Thr Gly Ile His Ala Val Glu Glu Val Ser Leu Glu Glu Phe Ser	3709
1200 1205 1210	
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1215 1220 1225	
gcc aag ggt gat ggg aca cca cgg tgc tca tgc cca gtc cac ctc gtg Ala Lys Gly Asp Gly Thr Pro Arg Cys Ser Cys Pro Val His Leu Val	3805
1230 1235 1240 1245	
ctc ctg cag aac ctg ctg acc tgt gga gag cgc ccc acc tgc tcc ccg Leu Leu Gln Asn Leu Leu Thr Cys Gly Glu Pro Pro Thr Cys Ser Pro	3853
1250 1255 1260	
gac cag ttt gca tgt gcc aca ggg gag atc gac tgt atc ccc ggg gcc Asp Gln Phe Ala Cys Ala Thr Gly Glu Ile Asp Cys Ile Pro Gly Ala	3901
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1280 1285 1290	
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1295 1300 1305	
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1310	1315	1320	1325
cgc tca gac gag gtg gac tgt gac gcc atc tgc ctg ccc aac cag ttc			4093
Arg Ser Asp Glu Val Asp Cys Asp Ala Ile Cys Leu Pro Asn Gln Phe			
1330	1335	1340	
cgg tgt gcg agc ggc cag tgt gtc ctc atc aaa cag cag tgc gac tcc			4141
Arg Cys Ala Ser Gly Gln Cys Val Leu Ile Lys Gln Gln Cys Asp Ser			
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ttc ccc gac tgt atc gac ggc tcc gac gag ctc atg tgt gaa atc acc			4189
Phe Pro Asp Cys Ile Asp Gly Ser Asp Glu Leu Met Cys Glu Ile Thr			
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Lys Pro Pro Ser Asp Asp Ser Pro Ala His Ser Ser Ala Ile Gly Pro			
1375	1380	1385	
gtc att ggc atc atc ctc tct ctc gtc atg ggt ggt gtc tat ttt			4285
Val Ile Gly Ile Ile Leu Ser Leu Phe Val Met Gly Gly Val Tyr Phe			
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Val Cys Gln Arg Val Val Cys Gln Arg Tyr Ala Gly Ala Asn Gly Pro			
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Phe Pro His Glu Tyr Val Ser Gly Thr Pro His Val Pro Leu Asn Phe			
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ata gcc ccg ggc ggt tcc cag cat ggc ccc ttc aca ggc atc gca tgc			4429
Ile Ala Pro Gly Gly Ser Gln His Gly Pro Phe Thr Gly Ile Ala Cys			
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Gly Lys Ser Met Met Ser Ser Val Leu Met Gly Gly Arg Gly Gly			
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Val Pro Leu Tyr Asp Arg Asn His Val Thr Gly Ala Ser Ser Ser Ser			
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tcg tcc agc acg aag gcc acg ctg tac ccg ccg atc ctg aac ccg ccg			4573
Ser Ser Ser Thr Lys Ala Thr Leu Tyr Pro Pro Ile Leu Asn Pro Pro			
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ccc tcc ccg gcc acg gac ccc tcc ctg tac aac atg gac atg ttc tac			4621
Pro Ser Pro Ala Thr Asp Pro Ser Leu Tyr Asn Met Asp Met Phe Tyr			
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tct tca aac att ccg gcc act gcg aga ccg tac agg ccc tac atc att			4669
Ser Ser Asn Ile Pro Ala Thr Ala Arg Pro Tyr Arg Pro Tyr Ile Ile			
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cga gga atg gcg ccc ccg acg acg ccc tgc agc acc gac gtg tgt gac			4717
Arg Gly Met Ala Pro Pro Thr Thr Pro Cys Ser Thr Asp Val Cys Asp			
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agc gac tac agc gcc agc cgc tgg aag gcc agc aag tac tac ctg gat			4765
Ser Asp Tyr Ser Ala Ser Arg Trp Lys Ala Ser Lys Tyr Tyr Leu Asp			
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ttg aac tcg gac tca gac ccc tat cca ccc cca ccc acg ccc cac agc			4813
Leu Asn Ser Asp Ser Asp Pro Tyr Pro Pro Pro Thr Pro His Ser			
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cag tac ctg tcg gcg gag gac agc tgc ccg ccc tcg ccc gcc acc gag			4861

Gln	Tyr	Leu	Ser	Ala	Glu	Asp	Ser	Cys	Pro	Pro	Ser	Pro	Ala	Thr	Glu	
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Arg	Ser	Tyr	Phe	His	Leu	Phe	Pro	Pro	Pro	Pro	Ser	Pro	Cys	Thr	Asp	
1600														1610		
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Ser	Ser															
1615																
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Leu	Leu	Leu	Leu	Ala	Leu	Cys	Gly	Cys	Pro	Ala	Pro	Ala	Ala	Ser		
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Pro	Leu	Leu	Leu	Phe	Ala	Asn	Arg	Arg	Asp	Val	Arg	Leu	Val	Asp	Ala	
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Gly	Gly	Val	Lys	Leu	Glu	Ser	Thr	Ile	Val	Val	Ser	Gly	Leu	Glu	Asp	
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Ala	Ala	Ala	Val	Asp	Phe	Ser	Lys	Gly	Ala	Val	Tyr	Trp	Thr			
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Asp	Val	Ser	Glu	Glu	Ala	Ile	Lys	Gln	Thr	Tyr	Leu	Asn	Gln	Thr	Gly	
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Ala	Ala	Val	Gln	Asn	Val	Val	Ile	Ser	Gly	Leu	Val	Ser	Pro	Asp	Gly	
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Leu	Ala	Cys	Asp	Trp	Val	Gly	Lys	Lys	Leu	Tyr	Trp	Thr	Asp	Ser	Glu	
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Thr	Asn	Arg	Ile	Glu	Val	Ala	Asn	Leu	Asn	Gly	Thr	Ser	Arg	Lys	Val	
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Leu	Phe	Trp	Gln	Asp	Leu	Asp	Gln	Pro	Lys	Ala	Ile	Ala	Leu	Asp	Pro	
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Ala	His	Gly	Tyr	Met	Tyr	Trp	Thr	Asp	Trp	Gly	Glu	Thr	Pro	Arg	Ile	
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Glu	Arg	Ala	Gly	Met	Asp	Gly	Ser	Thr	Arg	Lys	Ile	Ile	Val	Asp	Ser	
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Asp	Ile	Tyr	Trp	Pro	Asn	Gly	Leu	Thr	Ile	Asp	Leu	Glu	Glu	Gln	Lys	
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Leu	Tyr	Trp	Ala	Asp	Ala	Lys	Leu	Ser	Phe	Ile	His	Arg	Ala	Asn	Leu	
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Asp	Gly	Ser	Phe	Arg	Gln	Lys	Val	Val	Glu	Gly	Ser	Leu	Thr	His	Pro	
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Phe	Ala	Leu	Thr	Leu	Ser	Gly	Asp	Thr	Leu	Tyr	Trp	Thr	Asp	Trp	Gln	
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Thr Arg Ser Ile His Ala Cys Asn Lys Arg Thr Gly Gly Lys Arg Lys
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 Glu Ile Leu Ser Ala Leu Tyr Ser Pro Met Asp Ile Gln Val Leu Ser
 275 280 285
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 Gly Trp Ser His Leu Cys Leu Leu Ser Pro Ser Glu Pro Phe Tyr Thr
 305 310 315 320
 Cys Ala Cys Pro Thr Gly Val Gln Met Gln Asp Asn Gly Arg Thr Cys
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 Lys Ala Gly Ala Glu Glu Val Leu Leu Ala Arg Arg Thr Asp Leu
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 Arg Arg Ile Ser Leu Asp Thr Pro Asp Phe Thr Asp Ile Val Leu Gln
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 Val Asp Asp Ile Arg His Ala Ile Ala Ile Asp Tyr Asp Pro Leu Glu
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 Gly Tyr Val Tyr Trp Thr Asp Asp Glu Val Arg Ala Ile Arg Arg Ala
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 Tyr Leu Asp Gly Ser Gly Ala Gln Thr Leu Val Asn Thr Glu Ile Asn
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 Asp Pro Asp Gly Ile Ala Val Asp Trp Val Ala Arg Asn Leu Tyr Trp
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 Thr Asp Thr Gly Thr Asp Arg Ile Glu Val Thr Arg Leu Asn Gly Thr
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 Ser Arg Lys Ile Leu Val Ser Glu Asp Leu Asp Glu Pro Arg Ala Ile
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 Ala Leu His Pro Val Met Gly Leu Met Tyr Trp Thr Asp Trp Gly Glu
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 Asn Pro Lys Ile Glu Cys Ala Asn Leu Asp Gly Gln Glu Arg Arg Val
 485 490 495
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 Gln Glu Gly Lys Leu Tyr Trp Gly Asp Ala Lys Thr Asp Lys Ile Glu
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 Thr Asp Trp Gln Arg Arg Ser Ile Glu Arg Val His Lys Val Lys Ala
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 595 600 605
 Asn Gly Gly Cys Ser His Leu Cys Phe Phe Thr Pro His Ala Thr Arg
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 Cys Gly Cys Pro Ile Gly Leu Glu Leu Leu Ser Asp Met Lys Thr Cys
 625 630 635 640
 Ile Val Pro Glu Ala Phe Leu Val Phe Thr Ser Arg Ala Ala Ile His
 645 650 655

Arg Ile Ser Leu Glu Thr Asn Asn Asn Asp Val Ala Ile Pro Leu Thr
 660 665 670
 Gly Val Lys Glu Ala Ser Ala Leu Asp Phe Asp Val Ser Asn Asn His
 675 680 685
 Ile Tyr Trp Thr Asp Val Ser Leu Lys Asn Ile Ser Arg Ala Phe Met
 690 695 700
 Asn Gly Ser Ser Val Glu His Val Val Glu Phe Gly Leu Asp Tyr Pro
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 Glu Gly Met Ala Val Asp Trp Met Gly Lys Asn Leu Tyr Trp Ala Asp
 725 730 735
 Thr Gly Thr Asn Arg Ile Glu Val Ala Arg Leu Asp Gly Gln Phe Arg
 740 745 750
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 Asp Pro Thr Lys Gly Tyr Ile Tyr Trp Thr Glu Trp Gly Gly Lys Pro
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 Asp Lys Val Gly Arg Ala Asn Asp Leu Thr Ile Asp Tyr Ala Asp Gln
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 Arg Leu Tyr Trp Thr Asp Leu Asp Thr Asn Met Ile Glu Ser Ser Asn
 820 825 830
 Met Leu Gly Gln Glu Arg Val Val Ile Ala Asp Asp Leu Pro His Pro
 835 840 845
 Phe Gly Leu Thr Gln Tyr Ser Asp Tyr Ile Tyr Trp Thr Asp Trp Asn
 850 855 860
 Leu His Ser Ile Glu Arg Ala Asp Lys Thr Ser Gly Arg Asn Arg Thr
 865 870 875 880
 Leu Ile Gln Gly His Leu Asp Phe Val Met Asp Ile Leu Val Phe His
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 Ser Ser Arg Gln Asp Gly Leu Asn Asp Cys Met His Asn Asn Gln
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 Cys Gly Gln Leu Cys Leu Ala Ile Pro Gly Gly His Arg Cys Gly Cys
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21

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23

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<212> DNA
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caccgtgcca acctggacgg ctcgttccgg tagttaccca c 221

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ctggccctgg acctgcagga gggaaagctc tactgggag acgccaagac agacaagatc	180
gaggtgaggc tcctgtgg	198
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gccgcagcat cgagcgggtg cacaagggtca aggccagccg ggacgtcatc attgaccagc	180
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<212> DNA
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